PRINTER RUSH (PTO ASSISTANCE)

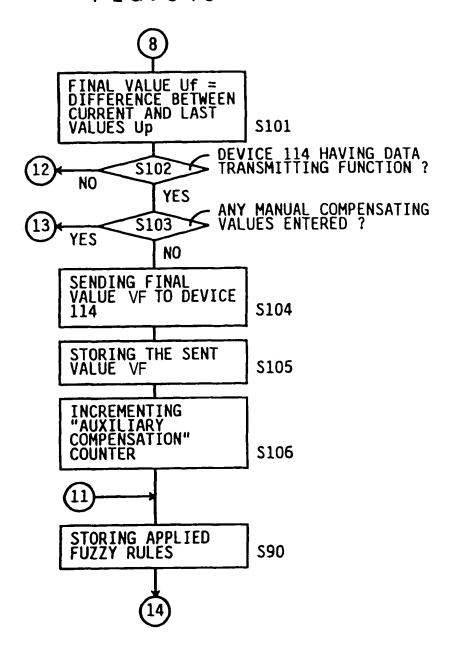
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From: PMP	Location: (IDO FMF FDC	Date:	6/28/05
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[RUSH] MESSAGE: Attended to the second out and [-8-0].	to for Figure	Drattsperson		Le supply
Trank you.				
[XRUSH] RESPONSE:	Collecter) (2-12	DRAWINGS	2	
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NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

FIG. 17 AUX. **MEMORY** START 32 CALCULATING FINAL COMPEN-SATING VALUE READING IN **S10** Ŭi* PARAMETERS S1 STORING MEA-SURED VALUE Xi READING IN CURRENTLY MEA-**S11** SURED VALUE X1 **S2** MEA-SURING STORING MOVING S12 AVERAGE Pi DEVICE 14 READING IN STORED MEA-53 SURED VALUES X STORING FIRST AND SECOND DERIVATIVES TI AND DI AUX. MEMORY **S18** CALCULATING MOVING AVERAGE 32 **S4** STORING PROVI-SIONAL COMPEN-SATING VALUE CALCULATING **S13** ERROR R1 U1 **S5** (Pi - Ao)STORING FINAL COMPENSATING VALUE U1 * CALCULATING FIRST DERIVA-TIVE Ti OF **S14 S6** ÉRROR RI Ui*=0 ? **S19** YES AUTO. SIZING DEVICE CALCULATING NO SECOND DERIVA-TIVE DI OF OUTPUTTING ERROR R1 ŽŽ **S17** FINAL COMPEN-SATING VALUE **S15** U1* DETERMINING PROVISIONAL COMPENSATING VALUE U1. BY FUZZY STORING DATA ON APPLIED **S8** INFERENCE **S16** FUZZY RULES READING IN STORED COMPEN-SATING VALUES AUX MEMORY 32 AUX. **S9** MEMORY 32

FIG.34C



ADJUSTING THE MOVING AVERAGES P OBTAINING
FINAL
COMPENSATING
VALUES U*
FOR GRADUAL
COMPENSATION THIRD STEP SIXTH STEP ے MOVING AVERAGES F COMPENSATING VALUES U VERAGES P VERAGES P USING CHANGED SECOND STEP DETERMINING PROVISIONAL COMPENSATING VALUES U BY FUZZY INFERENCE 114 AUTOMATIC SIZING DEVICE 114 FIFTH STEP FIG.36 DEAD TIME VALUE MS (NUMBER Y) DATA TRANSMISSION EIGHTH STEP SECOND DERIVATIVE D FIRST STEP ĈŰRRENTLY MEASURED VALUES X FIRST DERIVATIVE READING IN ERROR R 118 MEASURED VALUES X WORKPIECE COUNTER CALCULATING COMPENSATING DATA DETERMINING WHETHER ABSOLUTE VALUES U* ARE WITHIN RANGE SEVENTH STEP FOURTH STEP POST-PROCESS MEASURING DEVICE 116